

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Ben Markin

GENERAL INFORMATION:

Name:	Louisville Gas and Electric Company
Address:	220 West Main Street, Louisville, Kentucky 40232
Date application received:	February 25, 2003
SIC/Source description:	Electric Services
EIS #:	021-223-00002
Application log number:	53892
Permit number:	V-02-043

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☒ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM	541.5	3158
PM ₁₀	141.7	3158
SO ₂	7726	1333.7
NO _x	6805	11336
CO	364.6	1285.1
VOC	43.7	136.8
LEAD	0	0.73
HF	13.7	19
HCl	110	154

SOURCE PROCESS DESCRIPTION:

Louisville Gas & Electric Company is an existing source with coal fired and natural gas fired peaking units for electricity generation in Trimble County, Kentucky. The source has a draft Title V permit issued in 1997, which has undergone public/U.S.EPA review (12-18-1997) however, the final permit was not issued. An acid rain permit, which underwent public review (12-24-98), was issued for the boiler with NO_x averaging and SO₂ allowances in 1996 (AR-96-007); and revised NO_x averaging and SO₂ allowances permit issued on March 5, 1999 (A-98-011). In addition, the source submitted a permit application to construct and operate a natural gas fired peaking units, which were granted a PSD permit on June 22, 2001, after public/U.S.EPA review (5-17-2001). A Phase II acid rain application for the combustion turbines (CTs) received on June 12, 2001 has not been drafted or issued. Other than the new acid rain application for the combustion turbines, all three permit applications were called administratively complete on 12-12-1996 (draft TV permit), 12-24-1998 (first Title IV permit), and 01-14-01 (PSD permit) respectively.

The Division has decided to issue a source-wide proposed permit to incorporate the draft TV, PSD, existing acid rain permit for unit 1 and a Phase II draft permit for the CTs. The reason being that new CT units have no SO₂ allowances, which are yet to be purchased on the market. The acid rain section will be divided into two; the permitted unit one (1), with allowances and NO_x limits will be the initial part and while the second part addresses the CT's (units 25-30) with a draft watermark to indicate that this portion has not been reviewed by the public. The significant change for the entire permit is to give it a new permit number, which will affect the issuance date for the permitted acid rain for unit 1. Given the history above, the proposed permit with the number V-02-043, will consolidate the authority of any previously issued preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source. For continuity, the most current log number and the completeness dates will be used as general numbers for this permit.

EMISSION AND OPERATING CAPS DESCRIPTION:

NA

OPERATIONAL FLEXIBILITY:
NA